

NC/QC/YPD/SIP-01/2018-19/SP-DM1

Date: 09-04-2018

1. TEST REPORT ON BITUMINOUS MIXES :

(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for DBM mix sample.

{Project*: Improvements to Main roads and drains at Maruthi Nagara.}

Ref.: Material testing/PMC/17-18,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

TEST RESULTS

A. Type of Construction : Dense Graded Bituminous Macadam.

1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **4.51 %**

2. Gradation Test

TABLE 1.1

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-10 of MORTH Specifications- 2013 DBM (Grading - 2)
37.5	100	100
26.5	97.25	90-100
19.0	84.45	71-95
13.20	76.10	56-80
4.75	48.60	38-54
2.36	34.00	28-42
0.300	17.80	7-21
0.075	6.10	2-8

*As Furnished by Client.

The Results relate only to the items tested.

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Asst. Executive Engineer
Project Division,
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Bangalore

For Newzen Consultants Bangalore

Proprietor



NC/QC/YPD/SIP-01/2018-19/SP-DBM2

Date: 10-04-2018

1. TEST REPORT ON BITUMINOUS MIXES :

(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for DBM mix sample.

{Project*: Improvements to Main roads and drains at Maruthi Nagara.}

Ref.: Material testing/PMC/17-18,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

TEST RESULTS

A. Type of Construction : Dense Graded Bituminous Macadam.

1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **4.52 %**

2. Gradation Test

TABLE 1.1

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-10 of MORTH Specifications- 2013 DBM (Grading - 2)
37.5	100	100
26.5	95.30	90-100
19.0	88.60	71-95
13.20	71.00	56-80
4.75	45.20	38-54
2.36	37.15	28-42
0.300	16.45	7-21
0.075	5.85	2-8

*As Furnished by Client.

The Results relate only to the items tested.

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NC/QC/YPD/SIP-01/2018-19/SP-DM3

Date: 11-04-2018

1. TEST REPORT ON BITUMINOUS MIXES :

(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for DBM mix sample.

{Project*: Improvements to Main roads and drains at Maruthi Nagara. }

Ref.: Material testing/PMC/17-18,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

TEST RESULTS

A. Type of Construction : Dense Graded Bituminous Macadam.

1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **4.54 %**

2. Gradation Test

TABLE 1.1

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-10 of MORTH Specifications- 2013 DBM (Grading - 2)
37.5	100	100
26.5	97.25	90-100
19.0	84.60	71-95
13.20	76.10	56-80
4.75	48.55	38-54
2.36	37.65	28-42
0.300	17.40	7-21
0.075	5.85	2-8

*As Furnished by Client.

The Results relate only to the items tested.

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NC/QC/YPD/SIP-01/2018-19/SP-DBM4

Date: 12-04-2018

1. TEST REPORT ON BITUMINOUS MIXES :

(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for DBM mix sample.

{Project*: Improvements to Main roads and drains at Maruthi Nagara. }

Ref.: Material testing/PMC/17-18,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

TEST RESULTS

A. Type of Construction : Dense Graded Bituminous Macadam.

1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **4.50 %**

2. Gradation Test

TABLE 1.1

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-10 of MORTH Specifications- 2013 DBM (Grading - 2)
37.5	100	100
26.5	98.50	90-100
19.0	86.30	71-95
13.20	72.00	56-80
4.75	45.10	38-54
2.36	36.45	28-42
0.300	18.95	7-21
0.075	6.35	2-8

*As Furnished by Client.

The Results relate only to the items tested.

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NC/QC/YPD/SIP-01/2018-19/SP-CA3

Date: 10-04-2018

1. TEST REPORT ON COARSE AGGREGATE:

Sub: Testing of Coarse Aggregate used in Bituminous Concrete.

{Project*: Improvements to Main roads and drains at Maruthi Nagara.}

Ref.: Material testing/PMC/17-18,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

TABLE 1.1 :

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)- 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Aggregate Impact Value	23.03 %	Not more than 24.00 %
2.	Combined Flakiness and Elongation index, %	25.62%	Not more than 35.0 %
3.	Water absorption, %	0.34%	Not more than 2.0 %
4.	Specific gravity	2.56	-----
5.	Soundness	6.18 %	Max. 12 % in Sodium Sulphate

*As furnished by Client.

The results relate only to the samples tested.

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NC/QC/YPD/SIP-01/2018-19/SP-BC1

Date: 13-04-2018

1. TEST REPORT ON BITUMINOUS MIXES :

(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for BC mix sample.

{Project*: Improvements to Main roads and drains at Maruthi Nagara.}

Ref.: Material testing/PMC/17-18,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

TEST RESULTS

A. Type of Construction : Bituminous Concrete

1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = 5.45 %

2. Gradation Test

TABLE 1.1

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-17 of MORTH Specifications- 2013 BC (Grading - 2)
19.0	100	100
13.2	97.45	90-100
9.5	81.25	70-88
4.75	66.35	53-71
2.36	53.00	42-58
1.18	41.15	34-48
0.600	34.60	26-38
0.300	22.05	18-28
0.150	17.40	12-20
0.075	7.85	4-10

*As Furnished by Client.

The Results relate only to the items tested.

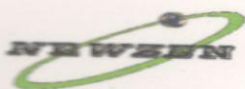
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NC/QC/YPD/SIP-01/2018-19/SP-BC2

Date: 14-04-2018

1. TEST REPORT ON BITUMINOUS MIXES :

(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for BC mix sample.

{Project*: Improvements to Main roads and drains at Maruthi Nagara.}

Ref.: Material testing/PMC/17-18,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

TEST RESULTS

A. Type of Construction : **Bituminous Concrete**

1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **5.41%**

2. Gradation Test

TABLE 1.1

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-17 of MORTH Specifications- 2013 BC (Grading - 2)
19.0	100	100
13.2	97.45	90-100
9.5	84.10	70-88
4.75	67.45	53-71
2.36	53.15	42-58
1.18	42.60	34-48
0.600	34.75	26-38
0.300	25.35	18-28
0.150	16.60	12-20
0.075	6.90	4-10

*As Furnished by Client.

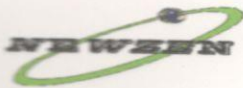
The Results relate only to the items tested.

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NC/QC/YPD/SIP-01/2018-19/SP-BC3

Date: 16-04-2018

1. TEST REPORT ON BITUMINOUS MIXES :

(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for BC mix sample.

{Project*: Improvements to Main roads and drains at Maruthi Nagara.}

Ref.: Material testing/PMC/17-18,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

TEST RESULTS

A. Type of Construction : Bituminous Concrete

1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **5.43 %**

2. Gradation Test

TABLE 1.1

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-17 of MORTH Specifications- 2013 BC (Grading - 2)
19.0	100	100
13.2	97.45	90-100
9.5	82.10	70-88
4.75	66.30	53-71
2.36	53.05	42-58
1.18	41.00	34-48
0.600	33.50	26-38
0.300	25.15	18-28
0.150	17.60	12-20
0.075	8.25	4-10

*As Furnished by Client.

The Results relate only to the items tested.

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NC/QC/YPD/SIP-01/2018-19/SP-BC4

Date: 17-04-2018

1. TEST REPORT ON BITUMINOUS MIXES :

(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for BC mix sample.

{Project*: Improvements to Main roads and drains at Maruthi Nagara.}

Ref.: Material testing/PMC/17-18,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

TEST RESULTS

A. Type of Construction : Bituminous Concrete

1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **5.41 %**

2. Gradation Test

TABLE 1.1

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-17 of MORTH Specifications- 2013 BC (Grading - 2)
19.0	100	100
13.2	98.10	90-100
9.5	84.30	70-88
4.75	67.20	53-71
2.36	53.45	42-58
1.18	42.00	34-48
0.600	34.60	26-38
0.300	25.40	18-28
0.150	19.05	12-20
0.075	7.50	4-10

*As Furnished by Client.

The Results relate only to the items tested.

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